CONFIDENTIAL

TIRC Grant #68

Progress Report #1

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"Investigation into the Natural History of Carcinoma of the Lung with Particular Reference to the Radiographic Appearance"

This report contains information gathered since the start of the investigation in 1953 and consequently covers more cases than those analyzed in the period of support by the Tobacco Research grant.

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A. MATERIAL:

1. A total of 446 cases of cancer of the lung diagnosed during the past 30 years has been gathered and partially analyzed as follows with the year indicating the time of diagnosis.

			STILL TO BE			
<u>YEAR</u>	<u>ANALYZ</u>	<u>ZED</u>	ANALYZED		ATOT	<u>L</u>
1926	1		2		3	
1927	0		2	41	2	
1928	1		4		5	
1929	1		2		. 3	
1930	2	and the state of t	1	**	3	
1931	2		· 3		5	
1932	3		3		6	
1933	0		6	40	6	
1934	1		5		6	
1935	4		5		9	
1936	4	73 H	3		7	
1937	2		7		9	
1938	3		5		8	
1939	3	-	8		11	
1940	. 2		8		10	
1941 1942	4		5		9	
1942	9		<i>(</i>		16	
1943	<u> </u>		5 0		7	
1944	4		4		4 8	
1946	7	•	3		,10	
1947	10	€ .	5		15	
1948	1.4	mark the state of the state of	11		25	
1949	9		7	en. Taganisas	16	- #:
1950	. 17		9		26	37
1951	26		15	Takan kanala	41	
1952	28	一种的特别对外	25	hautussa k	53	
1953	24		8		32	1
1954	$\mathbb{Z}_{y_{i}, \mathbb{Z}_{y_{i}}}$		38	بند. فالم الحجاز الأراكية	39	ا دياري
1955	14		<u>23</u>		<u>37</u>	اگروه درونو
1 1 193	e North Adams and Adams an	ことははあったに「気を抑しなれに置きっ	ω"	ريوني البالا	r 21 (1/25/25) 32	Sec. 18. 24

2. Not included in this progress report but intended as part of the final summation of the project are:

- a. Tabulation of specific symptoms.
- b. Diagnostic and operative procedures.
- c. Specific pathological cell type.
- d. Tobacco habits. A Part of the state of th

B. METHODS:

As of January 1, 1956, 450 letters were written to patients, their families, physicians and to hospitals in an attempt to track down previous x-rays taken prior to the onset of symptoms or prior to diagnosis. Of these, 185 were written in 1955. Other specific information was elicited as indicated. Three hundred answers have been received and the information tabulated.

These letters and a review of records from this and other hospitals lead to the accumulation and study of approximately 600 sets of x-rays. One hundred forty of these were from sources other than our own.

recorded on a master chart from which statistical information is readily available.

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C. STATISTICS:

Based on 203 currently completed cases. (243 cases are still to be processed plus cases diagnosed in coming months.)

- 1. Sex: 180 males; 23 females.
- 2. Age: Average male: 58.2
 Average female: 56.7
 Average total: 58.2
- 3. Occupation: (known in 162 cases with 167 categories)

· · · · · · · · · · · · · · · · · · ·	A.	**
Occupation	No. of case	<u>Per Cent</u>
White Collar	51	30
Housewife	18	11
Miscell. (1 each)	14	8.4
Dust (moulders, etc.)	12'	7.2
Machinists	10	6.0
Carpenters	9	5.4
Painters	8	4.8
Tailors	7	4.2
Truck Drivers	The second of the second of the second	4.2
Farmers		3.6
Janitors	5 b	3.0
Gardeners	is the second of	2.4
Railroad workers		2.4
Garage mechanics		1.8
Laborers		1.8
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				•	
Occupation		No. of o	<u>ases</u>	<u>P</u>	<u>er Cent</u>
Bakers		2			1.2
Plumbers		2			1.2
Teamsters	e promise de la companya della companya de la companya de la companya della companya della companya de la companya de la companya della compa	2			1.2
4. Earl	iest x-rays fo	und: (whether	negative or	positive for	disease)
	age interval bemes: from z	etween date of ero up to 264		agnosis: 24	.3 months
	Section 18 Section 18				
5. Earl	iest x-ray evi	dence of lung	cancer:	H	. ***
a.	The average is and the clini				
b.	Excluding 58	cases (28%) wh			
2.0	and in which				
	were simultan x-ray evidence				
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	cancer and a				
	The longest s	uch interval v	vas		36 mos.
Brea	kdown of such	interval:	* ** *		er e
		V V	No. Cases	<u>Pe</u>	r Cent
	ss than 6 mont				43
	to 11 months in				12
	to 23 months er 24 months		9		11 4.4: ***********************************
	ro (see C-5-b		•		28
	tionship of sy		er e	to diagnosis	
O. Rela	cronship of sy	mp coms co x-re	sy change and	co diagnosis	
a.	X-ray evidence 18 cases (8.8)		receded clinic	cal symptoms	in
	Average inter				
	Longest such Shortest such	interval		34	
b .	In 16 cases (cancer of the				ole to
c.	Duration of s	ymptoms prior	to diagnosis	(including b	above):
	Average			7	months years
and the second of the second o	Longest such Shortest such	interval		5	years
nager in the grant to the first and analysis. The same of the	Shortest such	interval			
	kdown of inter	* '	el a llegar de la lacada. Sul arta est de la lacada de la lacada.	and a stage of the light Constitution with a section	
Brea	Known of Turel.	vans – Der Hes	No. cases	Per	Cent O
No	interval		16		7.9

Less than 6 months----- 100
6 to 11 months----- 46
Source: https://www.industrydocuments.ucsf.edu/docs/ispi0000

	No. cases	.	Per Cent
12 to 23 months	26		12.8
Over 24 months	15	. •	7.4

7. The interpretations of radiographs showing the earliest changes compatible with the diagnosis of cancer of the lung have been tabulated in 13 categories as follows:

See Table 1.

D. RESULTS:

No results or conclusions have been, or are intended to be drawn from this preliminary progress report since any such conclusions would be most pertinent after summation of the whole.

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TABLE

CATEGORIES OF EARLIEST RADIOGRAPHIC CHANGES COMPATIBLE WITH DIAGNOSIS OF CANCER OF LUNG

RADIOGRAPHIC FINDING	No.	OTAL %		FOUNI No.	ALONE			WITH No.	1 OTHER	WITH 2	OTHERS %
Obstructive pneumonitis **	76	37.3	1	35	17.2			35	17.2	6	3.0
Hilar lymph nodes	50	24.6		10	4.9	. * .		37	18.2	3	1.5
Parenchymal mass	42	20.7								. 4.	
l cm. or less in size Over l cm. in size	10 32	4.9 15.8		10 20	4.9 10.1			0 12	5.9	0 0	
Hilar mass	30	14.8	t ·	14	6.9			13	6.4	3	1.5
Atelectasis	22	10.8		9	4.4			13	6.4	0	
Pleural effusion	19	9.4	•	Ö				15	7.4	4	2.0
Parenchymal fibrous infiltrate	13	6.4		10	4.9			3	1.5	0	-
Mediastinal nodes	12	5.9		4	2.0			6	3.0	2	1.1
Parenchymal mass with cavitation	6	3.0		5	2.5		•	1	0.5	0	
Obstructive emphysema	5	2.5		1	0.5		•	4	2.0	đ	
Obstructive pneumonitis with breakdown (cavitation)	4	2.0		2	1.1	. :-		2	1.1	0	
Perihilar infiltration	2	1.1		1	0.5	-		1	0.5	0	
Diffuse parenchymal tumor	1	0.5		1	0.5			0		0	

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^{*}a term indicating a combination of atelectasis and infection in a segment of parenchyma.